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APPLICATION NO.	FILIN	IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/684,178 10/10/2003		Gerardo M. Castillo	17170-004001	2631	
20985	7590	590 08/01/2005		EXAMINER	
FISH & RI	CHARDSO AMINO REA	•		COVINGTON,	RAYMOND K
SAN DIEGO			ART UNIT	PAPER NUMBER	
	•			1625	

DATE MAILED: 08/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

The MAILING DATE of this communication app Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period versions of the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 29 App This period is EINAL	Y IS SET TO EXPIRE 3 MONTH(36(a). In no event, however, may a reply be time, within the statutory minimum of thirty (30) days, will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE of date of this communication, even if timely filed poril 2005. action is non-final.	S) FROM nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
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 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	-	
Disposition of Claims		
4) ☐ Claim(s) 22-36,38-49,52,53 and 57-61 is/are putal Of the above claim(s) 1-21,37,50,51,54-56 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 22-36,38-49,52,53 and 57-61 is/are refered to. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	and 62-95 is/are withdrawn from	consideration.
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the conference of the c	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/30/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	

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Applicants' election of the invention of group V claims 31-32 and 35-36 without traverse is noted. Applicants further elected Alzheimer's disease for search purposes. Accordingly, claim 36, drawn to Parkinson's disease, has been withdrawn. Claims 22-30, 33, 34, 38-49, 52-53 and 57-61 are linking claims and will be searched too the extent they read on the elected invention. Accordingly, claims 22-36, 38-49, 52, 53 and 57-61 are pending and claims 1-21,37, 50, 51, 54-56, and 62-95 have been withdrawn from consideration.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 22-36, 38-49, 52, 53 and 57-61 rejected under 35 U.S.C. 102(b) as being anticipated by Castillo et al PCT 00/12102. Castillo et al PCT 00/12102 teach using procyanidin B2 containing compounds in the treatment of Alzheimer's disease. See, for example, page 1, lines 10-22, page 2 lines 15-24. it is noted that procyanidin B2 is taught for use in the claimed method notwithstanding its source or process for its production.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 22-49, 52,53 and 57-61 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The instant specification does not adequately describe the nexus between the amyloid fibrils, synuclein fibrils, and a useful treatment of Alzheimer's disease.

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue". These factors include 1) the breadth of the claims, 2) the nature of the invention, 3) the state of the

prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art, 6) the amount of direction provided by the inventor, 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

The nature of the invention: The nature of the invention is the method of treating Alzheimer's disease amyloid fibrils, synuclein.

The state of the prior art: The state of the prior art is that it involves screening in vitro and in vivo to determine which compounds exhibit the desired pharmacological activities (i.e. what compounds can treat which specific disease). There is no absolute predictability even in view of the seemingly high level of skill in the art. The existence of these obstacles establishes that the contemporary knowledge in the art would prevent one of ordinary skill in the art from accepting any therapeutic regimen on its face.

The predictability in the art: It is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed

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for physiological activity. In re Fisher, 427 F. 2d 833, 166 USPO 18 (CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statute. In the instant case, the instantly claimed invention is highly unpredictable since one skilled in the art would recognize that in regards to the therapeutic effects of all diseases, whether or not the modulation amyloid fibrils, synuclein fibrils, would make a difference in the disease. Hence, in the absence of a showing of a nexus between the amyloid fibrils, synuclein fibrils, and a useful treatment of Alzheimer's disease, one of ordinary skill in the art is unable to fully predict possible results from the administration of the compound of claim 1 due to the unpredictability of the role of amyloid fibrils, synuclein fibrils.

The amount of direction or guidance present: The guidance present in the specification is that of the compounds that are tested that some work, some don't work, and some work to a weak extent. Very similar compounds have been shown to have one work well and the other have no effect. Also, the biological effects are mediated through two

distinct fibril subtypes. The specification does not seem to enable a correlation.

The breadth of the claims: The claims are drawn to the treatment of any and all diseases mediated by the amyloid fibrils and synuclein fibrils.

The level of the skill in the art: The level of skill in the art is high.

However, due to the unpredictability in the pharmaceutical art, it is noted that each embodiment of the invention is required to be individually assessed for physiological activity by in vitro and in vivo screening to determine which compounds exhibit the desired pharmacological activity and which diseases would benefit from this activity.

Thus, the specification fails to provide sufficient support of the broad use of the compounds of claim 1 for the treatment of any disease. As a result necessitating one of ordinary skill to perform an exhaustive search for which diseases can be treated by which compound of claim 1 in order to practice the claimed invention.

Genentech Inc. v. Novo Nordisk A/S (CA FC) 42 USPQ2d 1001, states that "a patent is not a hunting license. It is not a reward for

search, but compensation for its successful conclusion" and "[p]atent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable".

Therefore, in view of the Wands factors and In re Fisher (CCPA 1970) discussed above, to practice the claimed invention herein, one of ordinary skill in the art would have to engage in undue experimentation to test which diseases can be treated by the compounds of the instant claims, with no assurance of success.

This rejection can be overcome by deleting the claims.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Covington whose telephone number is (571) 272-0681. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, C. Tsang can be reached on (571) 272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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> **Raymond Covington** Examiner 1/25/08

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